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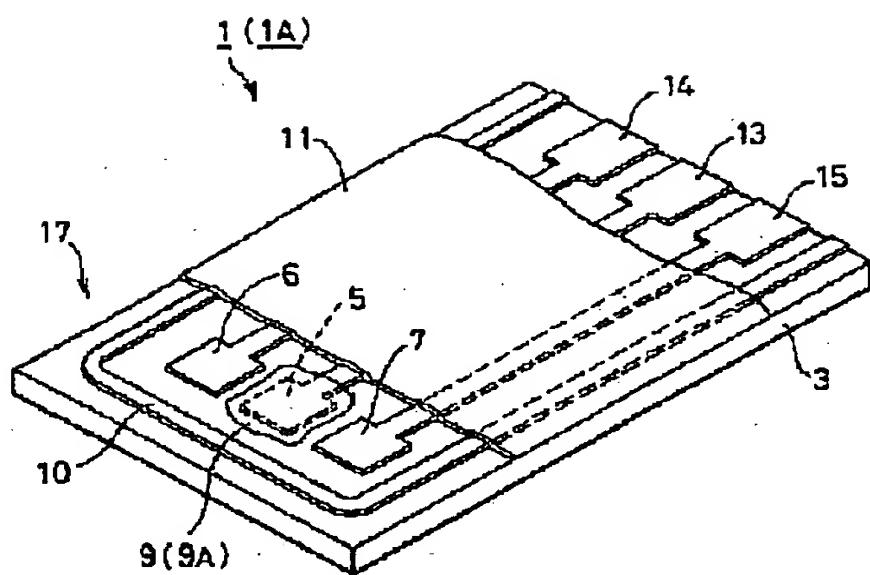
APPLICATION DATE : 10-03-92
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APPLICANT : TOTO LTD;

INVENTOR : OGURA KENJI;

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TITLE : BIOSENSOR



ABSTRACT : PURPOSE: To easily prevent the deterioration in measurement accuracy of a biosensor caused by the temperature of a solution to be measured.

CONSTITUTION: This biosensor is constituted of an insulating substrate 3 formed by sintering alumina and a working electrode 5, reference electrode 6, and counter electrode 7 made of platinum and a self-temperature controlling heater 10 which is formed of a Pt-Pd alloy and has a self-controlling temperature of 37°C, all of which are formed on the upper surface of the substrate 3. A discriminating layer 9 carrying glucose oxidase and a ferrocene derivative is fixed to the upper surface of the electrode 5. Then prescribed low voltages for measurement are applied across the electrodes 5 and 6 and across the electrodes 7 and 6 and an electric current is always supplied to the heater 10. Therefore, the biosensor outputs its output while the heater 10 maintains the periphery of the electrode 5 at 37°C.

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